

# PSM-EG-RS232/RS422-P/4K - Interface converter



2761266

<https://www.phoenixcontact.com/us/products/2761266>

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Interface converter, for converting RS-232 (V.24) to RS-422 (V.11), with electrical isolation, 4 channels, rail-mountable

## Your advantages

- RS-422 4-wire point-to-point operation
- Transmission speed of up to 64 kbps
- High-quality 3-way isolation between power supply, RS-232, and RS-422 for safe electrical isolation of potentials with 2.5 kV
- Integrated surge protection with transient discharge to the DIN rail
- As an alternative, data cables can be connected via D-SUB plugs or plug-in screw terminal blocks

## Commercial data

Item number	2761266
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	DN05
Product key	DNC112
GTIN	4017918064631
Weight per piece (including packing)	291.3 g
Weight per piece (excluding packing)	250.08 g
Customs tariff number	85176200
Country of origin	DE

## Technical data

### Product properties

Product type	Interface converter
MTBF	1045 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
	223 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))

### Electrical properties

Electrical isolation	VCC // V.24 (RS-232) // RS-422
Maximum power dissipation for nominal condition	3.12 W
Test voltage data interface/power supply	2.5 kV
	2.5 kV AC
Test voltage data interfaces	2.5 kV AC

### Supply

Supply voltage range	19.2 V DC ... 28.8 V DC
Typical current consumption	130 mA (24 V DC)

### Connection data

#### Supply

Tightening torque	0.56 Nm ... 0.79 Nm
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### Interfaces

Bit distortion	≤ 5 %
Bit delay	≤ 3 μs
Signal	Modbus
Transmission channels	4 (2/2), RxD, TxD, RTS, CTS; full duplex

Data: V.24 (RS-232) interface in acc. with ITU-T V.28, EIA/TIA-232, DIN 66259-1

Serial transmission speed	64 kbps
Connection method	D-SUB 9 plug
	Pluggable screw connection
Transmission length	15 m (twisted pair)
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section AWG max.	13
Conductor cross-section AWG min.	24

Data: RS-422 interface in acc. with ITU-T V.11, EIA/TIA-422, DIN 66348-1

Serial transmission speed	64 kbps
Connection method	D-SUB-15 male connector
	Pluggable screw connection
Transmission length	1200 m (twisted pair)

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Termination resistor	510 $\Omega$
	150 $\Omega$
	510 $\Omega$ (Can be connected)
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section AWG max.	13
Conductor cross-section AWG min.	24

## Dimensions

Width	45 mm
Height	75 mm
Depth	110 mm

## Material specifications

Color (Housing)	green (RAL 6021)
Material (Housing)	ABS

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	0 °C ... 50 °C
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## Approvals

### UL, USA/Canada

Identification	508 Recognized
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## EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise immunity	EN 50 082-2

### Noise emission

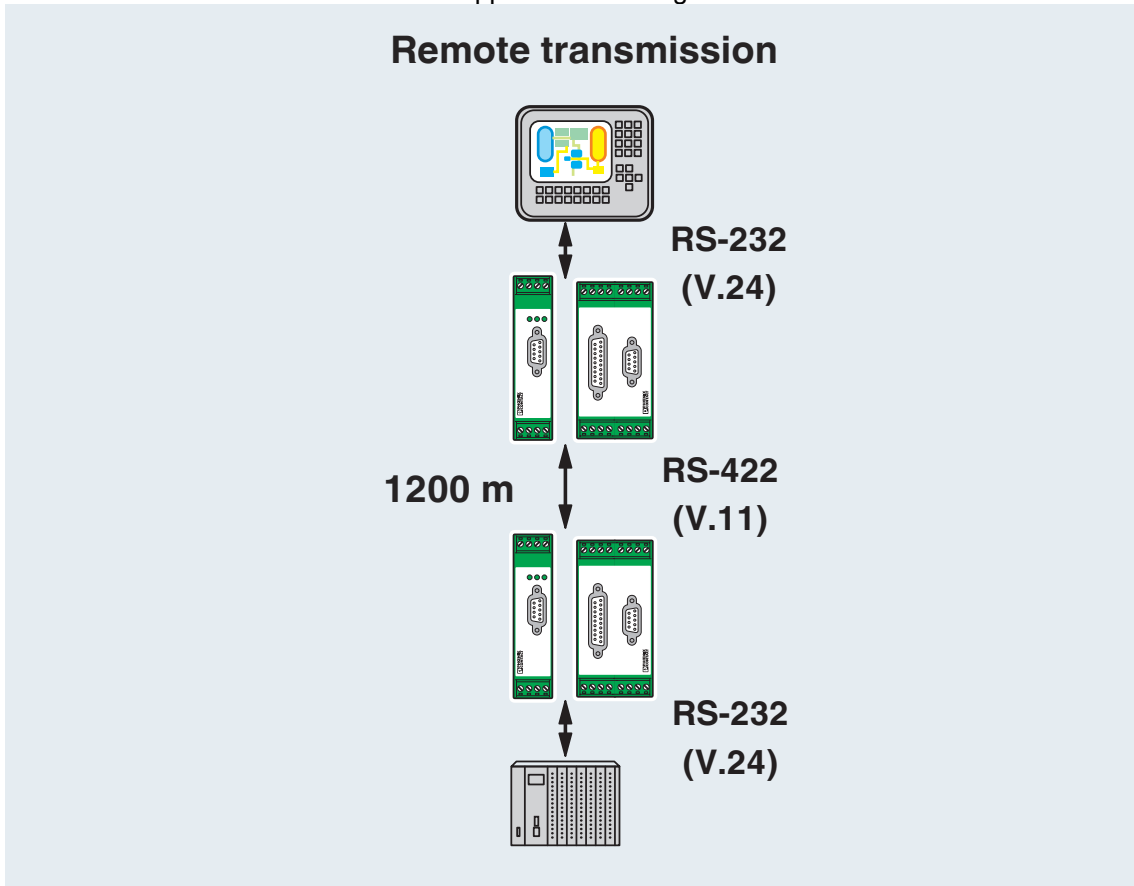
Standards/regulations	EN 50 081-1
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## Mounting

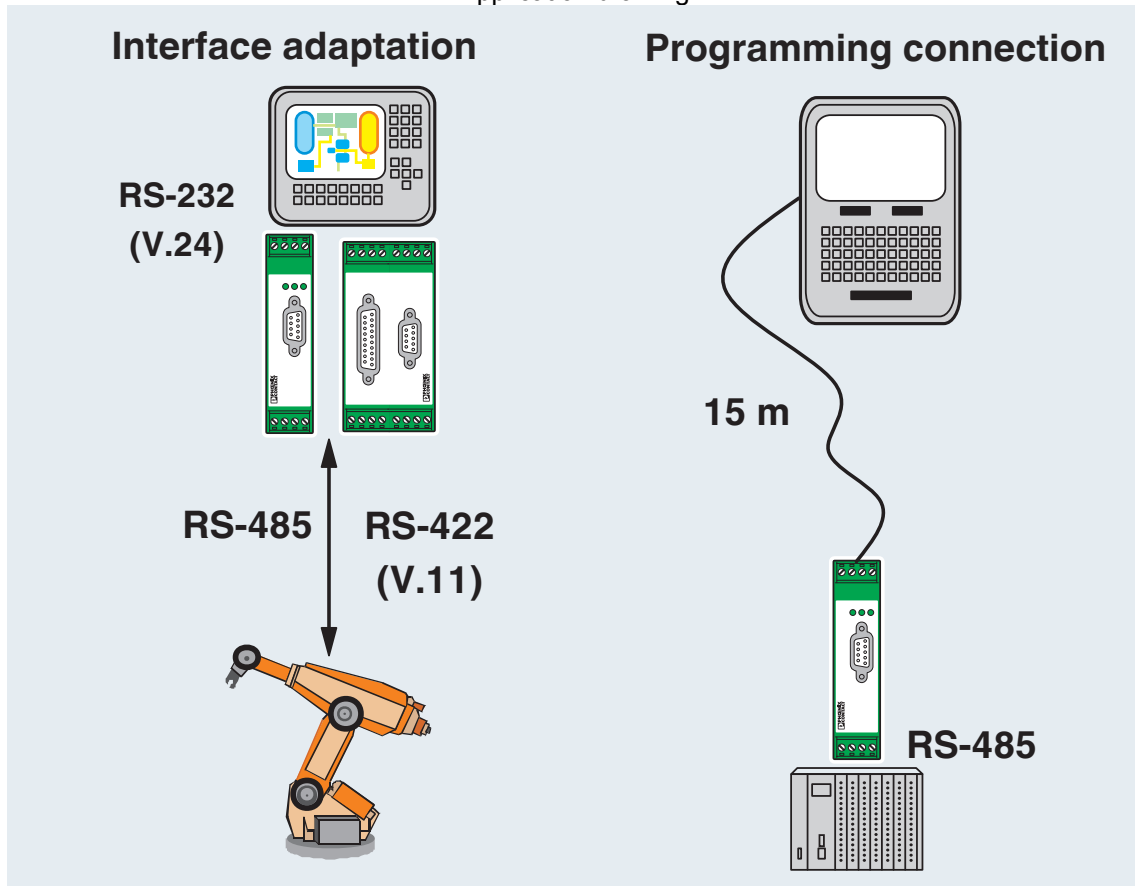
Mounting type	DIN rail mounting
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Drawings

Application drawing

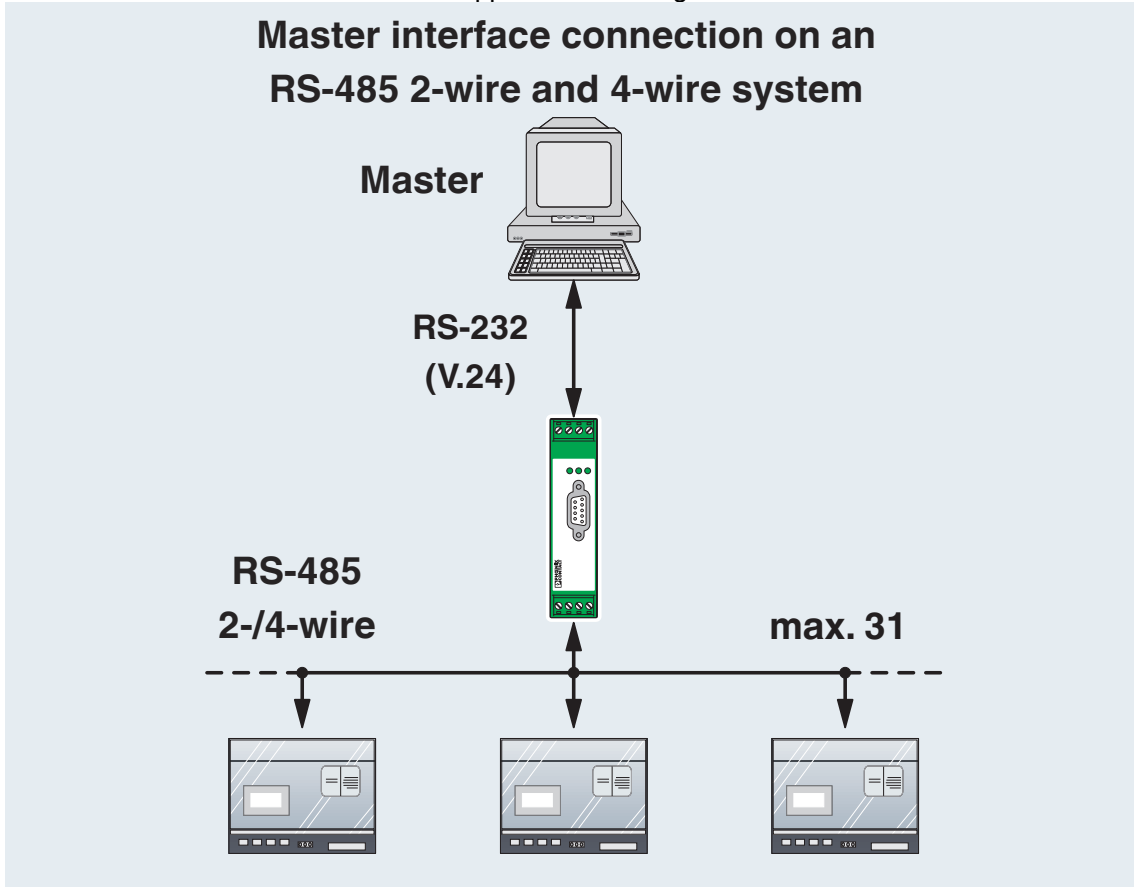


Application drawing

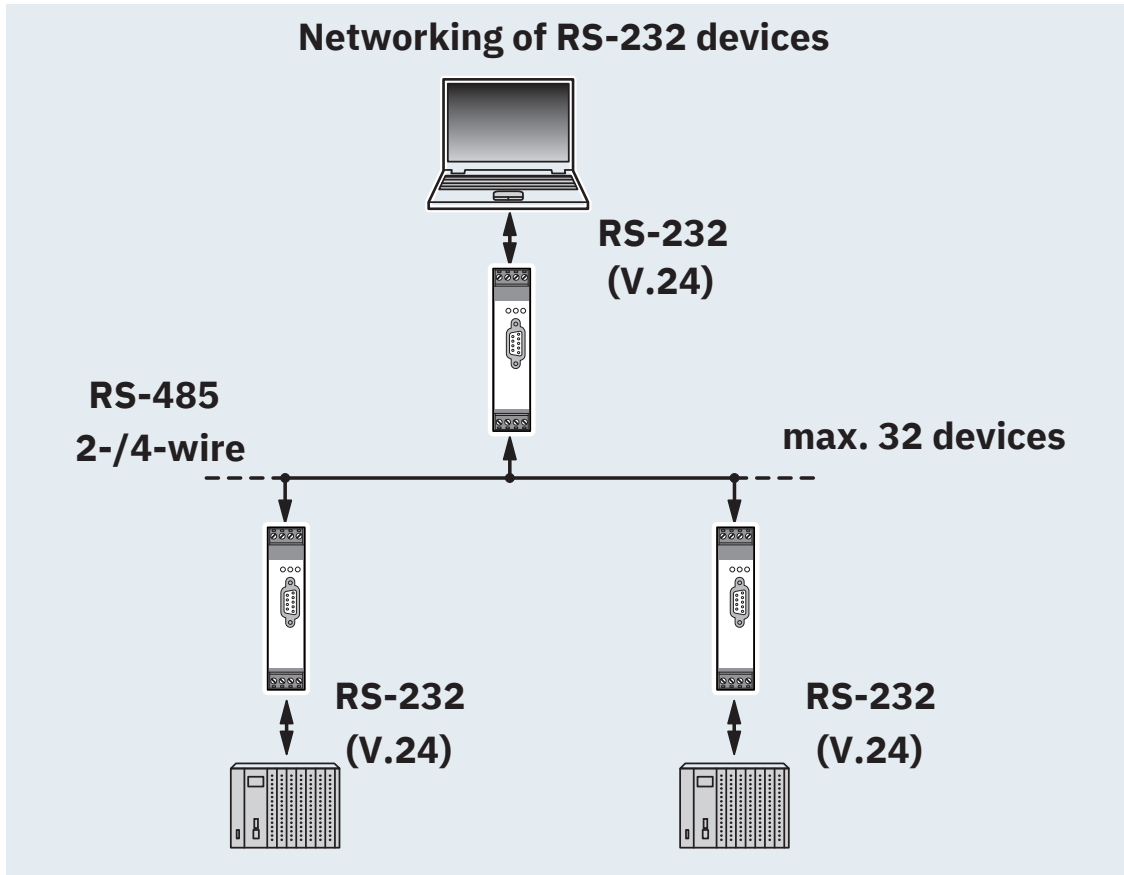


Application drawing

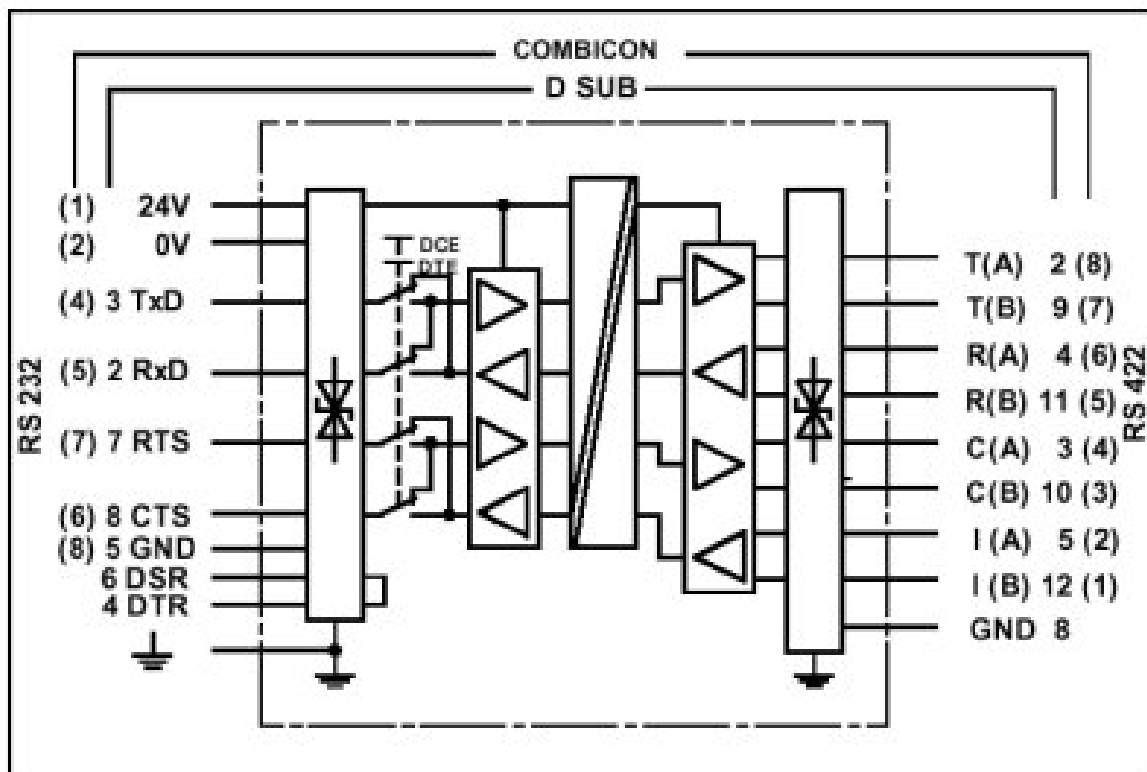
**Master interface connection on an  
RS-485 2-wire and 4-wire system**



Application drawing



Circuit diagram



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## Classifications

### UNSPSC

UNSPSC 21.0	43222604
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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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